PTO/SB/05 (08-03)
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UTILITY
PATENT APPLICATION
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	3303-23
First Inventor	Chen, C. J., et al.
Title	Surface Micromachined Mechanical Micropumps and Fluid Shear Mixing, Lysing, and Separation Microsystems
Express Mail Label No.	EV 346751137 US

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.			ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450							
1. Fee Tr (Submit Submit Subm	ransmittal Format an original and ant claims smar 7 CFR 1.27. ication red arrangement riptive title of the Reference to Rement Regarding ence to sequencomputer program ground of the Investment of the Description of the Description of the Description of the Discloseng(s) (35 U.S.C. elaration why executed (copy from a prior continuation/of DELETION O	n (e.g., PTO/SB/17) a duplicate for fee procall entity status. [Total Pages_set forth below) invention elated Applications Fed sponsored R & D re listing, a table, n listing appendix ention lnvention e Drawings (if filed) sure [Total Sheed original or copy) application (37 CFR divisional with Box 18 F INVENTOR(S) In tattached deleting invertage in the state of t	essing) 28] ots] ets 4] 1.63(d)) completed)	7	CD-ROM or Computer Prelectide and/oplicable, all recomputer Prelectide and/oplicable, all recomputer Specific Computer Specific Computer Statement Preliminary Return Retu	P.O. Box Alexandri CD-R in dupl rogram (Appe or Amino Acid	icate, large and ix) Sequence Form (CR ence Listing DR (2 columns) g identity of PPLICATiver sheet & ent pee) sument (if a fee) d (MPEP 5 temical) it under 35	e table substitution of about 100 pies); of about	de or or ove copies N PARTS Eument(s)) Power of ottorney Rable) Copies of IDS Citations	22141 U.S. PTO 10/697412
6. Application Data Sheet. See 37 CFR 1.76			17.	or its equiv						
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:										
Contin	nuation	Divisional	Continua	tion-in-part (CIP) of	f prior application	on No.:			
Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.										
			19. CORRESPON	DENCE A	DDRESS					
Custom	ner Number:		30448		OR	Corre	spondence	e ado	iress below	
Name	Michael K, Di	xon								
Address	Akerman Sen	terfitt								
		Avenue, 4th Floor		- A - T			1 3: 0			
- Wood Callin Bodon			State FL Zip Code 33401			33401				
Country United States Telephone 561.653.5000 Fax 561.659.6313										
Name (Print/Type) Michael K. Dixon Registration No. (Attorney/Agent) 46,665										
Signature	11/	J/K					Date	Octo	ober 30, 2003	

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



13049 U.S. PTO

TOTAL AMOUNT OF PAYMENT

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Signature

Michael K. Dixon

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	Complete if Known			
FEE TRANSMITTAL	Application Number	Filed Herewith		
for FY 2004	Filing Date			
Effective 10/01/2003. Patent fees are subject to annual revision.	First Named Inventor	Chen, C. J.		
· · · · · · · · · · · · · · · · · · ·	Examiner Name	Unassigned		
Applicant claims small entity status. See 37 CFR 1.27	Art Unit	Unassigned		

(\$) 502.00

TOTAL AMOUNT OF PAYMENT (\$) 502.00	TAL AMOUNT OF PAYMENT (\$) 502.00 Attorney Docket No. 3303-23						
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)						
Check Credit card Money Other None	3. A	3. ADDITIONAL FEES					
Order Order	<u>Large</u>	Large Entity Small Entity					
Deposit	Fee Code	Fee (\$)	Fee Code	Fee /\$\	Fee Description	Fee Paid	
Account Number	1051	130	2051		Surcharge - late filing fee or oath	ree Palu	
Deposit Account Akerman Senterfitt	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		
Name	1053	130	1053		Non-English specification		
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812 2	2,520	For filing a request for ex parte reexamination		
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to		
Charge fee(s) indicated below, except for the filing fee	1005	4 040*	1005	4 0 4 0 *	Examiner action Requesting publication of SIR after		
to the above-identified deposit account.	1603	1,840*	1005	1,040	Examiner action		
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month		
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month		
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month		
Fee Fee Fee Fee Pee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month		
1001 770 2001 385 Utility filing for	1255	2,010	2255	1,005	Extension for reply within fifth month		
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Appeal		
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal		
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing		
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
SUBTOTAL (1) (\$) 385.00	1452	110	2452	55	Petition to revive - unavoidable		
	1453	1,330	2453	665	Petition to revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,330	2501	665	Utility issue fee (or reissue)		
Extra Claims below Fee Paid	1502	480	2502	240	Design issue fee		
Total Claims 33 -20** = 13 x 9 = 117	1503	640	2503	320	Plant issue fee		
Independent 3 - 3** = 0 X = 1	1460	130	1460	130	Petitions to the Commissioner		
Multiple Dependent	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt		
Code (\$) Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)		
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))		
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))		
1204 86 2204 43 ** Reissue independent claims over original patent	1801		2801		Request for Continued Examination (RCE)		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application		
SUBTOTAL (2) (\$) 117.00		fee (sp				<u> </u>	
**or number previously paid, if greater; For Reissues, see above	Redu	iced by	Basic F	iling F	ee Paid SUBTOTAL (3) (\$)		
SUBMITTED BY					(Complete (if applicable))		

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46,665

Telephone 561.653.5000

Date

October 30, 2003